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L1: Entry 1 of 4

File: USPT

Mar 11, 2003

US-PAT-NO: 6532298

DOCUMENT-IDENTIFIER: US 6532298 B1

TITLE: Portable authentication device and method using iris patterns

DATE-ISSUED: March 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cambier; James L.	Medford	NJ		
Siedlarz; John E.	Indian Mills	NJ		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Iridian Technologies, Inc.	Moorestown	NJ			02

APPL-NO: 09/ 396083 [\[PALM\]](#)

DATE FILED: September 14, 1999

PARENT-CASE:

RELATED APPLICATION DATA This is a continuation-in-part of U.S. patent application Ser. No. 09/310,302 which was filed May 12, 1999, which is a continuation-in-part of U.S. patent application Ser. No. 09/199,369 which was filed Nov. 25, 1998.

INT-CL: [07] [G06 K 9/00](#)

US-CL-ISSUED: [382/117](#); [340/5.82](#)

US-CL-CURRENT: [382/117](#); [340/5.82](#)

FIELD-OF-SEARCH: [382/110](#), [382/117](#), [382/115](#), [382/116](#), [351/206](#), [351/218](#), [351/209](#), [340/5.2](#), [340/5.52](#), [340/5.53](#), [340/5.81-5.83](#)

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#)

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<a href="#">4109237</a>	August 1978	Hill	340/146.3E
<input type="checkbox"/>	<a href="#">4620318</a>	October 1986	Hill	382/2
<input type="checkbox"/>	<a href="#">4641349</a>	February 1987	Flom et al.	382/2
<input type="checkbox"/>	<a href="#">4876608</a>	October 1989	Eaton	358/443

<input type="checkbox"/>	<u>5055658</u>	October 1991	Cockburn	235/382
<input type="checkbox"/>	<u>5109390</u>	April 1992	Gilhousen et al.	375/1
<input type="checkbox"/>	<u>5151583</u>	September 1992	Tokunaga et al.	250/201.2
<input type="checkbox"/>	<u>5175758</u>	December 1992	Levanto et al.	379/57
<input type="checkbox"/>	<u>5187506</u>	February 1993	Carter	351/221
<input type="checkbox"/>	<u>5291560</u>	March 1994	Daugman	382/2
<input type="checkbox"/>	<u>5359669</u>	October 1994	Shanley et al.	382/6
<input type="checkbox"/>	<u>5392297</u>	February 1995	Bell et al.	371/22.6
<input type="checkbox"/>	<u>5404163</u>	April 1995	Kubo	348/142
<input type="checkbox"/>	<u>5448622</u>	September 1995	Huttunen	379/58
<input type="checkbox"/>	<u>5485486</u>	January 1996	Gilhousen et al.	375/205
<input type="checkbox"/>	<u>5572596</u>	November 1996	Wildes et al.	382/117
<input type="checkbox"/>	<u>5581630</u>	December 1996	Bonneau, Jr.	382/116
<input type="checkbox"/>	<u>5629981</u>	May 1997	Nerlikar	380/25
<input type="checkbox"/>	<u>5646709</u>	July 1997	Carter	351/218
<input type="checkbox"/>	<u>5719950</u>	February 1998	Osten et al.	382/115
<input type="checkbox"/>	<u>5751260</u>	May 1998	Nappi et al.	345/8
<input type="checkbox"/>	<u>5751836</u>	May 1998	Wildes et al.	382/117
<input type="checkbox"/>	<u>5790957</u>	August 1998	Heidari	455/553
<input type="checkbox"/>	<u>6289113</u>	November 2001	McHugh et al.	382/117

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
97302580.2	April 1997	EP	
9611787.4	June 1996	GB	
9621900.1	October 1996	GB	
WO 97/21188	June 1997	WO	
WO 97/46978	December 1997	WO	
WO 97/46979	December 1997	WO	
WO 97/46980	December 1997	WO	
WO 98/08439	March 1998	WO	
WO 98/32093	July 1998	WO	

ART-UNIT: 2611

PRIMARY-EXAMINER: Mehta, Bhavesh

ATTY-AGENT-FIRM: Woodcock Washburn LLP

ABSTRACT:

A compact, handheld imaging apparatus which can be used to capture high-quality iris images for identification of a person. The handheld iris imager is non-invasive and non-contacting and comprises a camera, a cold mirror, a lens, and an illuminator. The imager has sensors and indicators which assist a user in aligning and focusing the device. The imager also automatically captures the image when proper positioning is achieved. A template of the image is then transmitted to a receiver in a vehicle or other asset and compared to a database of previously stored templates of images to identify the person. The imager is part of a security module to protect access to an asset such as a vehicle or residence. The vehicle or residence cannot be unlocked and used unless a user has been identified and authorized by the imager and a controller system.

12 Claims, 17 Drawing figures

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L1: Entry 2 of 4

File: USPT

Mar 4, 2003

US-PAT-NO: 6529725

DOCUMENT-IDENTIFIER: US 6529725 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Transaction security apparatus and method

DATE-ISSUED: March 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Joao; Raymond Anthony	Yonkers	NY	10703	
Bock; Robert Richard	Yonkers	NY	10704	

APPL-NO: 09/ 169053 [PALM]

DATE FILED: October 9, 1998

## PARENT-CASE:

RELATED APPLICATIONS This application is a continuation application of U.S. patent application Ser. No. 08/873,945, filed Jun. 12, 1997, which, in turn, is a continuation application of U.S. patent application Ser. No. 08/694,199, filed Aug. 8, 1996, abandoned.

INT-CL: [07] H04 Q 7/20, H04 Q 7/32

US-CL-ISSUED: 455/406; 455/407, 455/408, 455/410, 455/411, 379/112.01, 379/91.01, 379/91.02, 340/5.4, 340/5.42, 340/5.5

US-CL-CURRENT: 455/406; 340/5.4, 340/5.42, 340/5.5, 379/112.01, 379/91.01, 379/91.02, 455/407, 455/408, 455/410, 455/411

FIELD-OF-SEARCH: 455/403, 455/406, 455/407, 455/408, 455/410, 455/411, 455/426, 379/112, 379/91.01, 379/91.02, 340/825.33, 340/825.32, 340/825.44, 705/26, 705/35, 705/37, 705/75

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>3723655</u>	March 1973	Zucker et al.	455/408
<input type="checkbox"/> <u>3938090</u>	February 1976	Borison et al.	455/406
<input type="checkbox"/> <u>4485300</u>	November 1984	Peirce	455/408
<input type="checkbox"/> <u>4758714</u>	July 1988	Carlson et al.	455/406

<input type="checkbox"/>	<u>4947027</u>	August 1990	Golightly	455/407
<input type="checkbox"/>	<u>5038284</u>	August 1991	Kramer	340/825.33
<input type="checkbox"/>	<u>5173594</u>	December 1992	McClure	455/406
<input type="checkbox"/>	<u>5177342</u>	January 1993	Adams	455/403
<input type="checkbox"/>	<u>5243645</u>	September 1993	Bissell et al.	455/408
<input type="checkbox"/>	<u>5335278</u>	August 1994	Matchett et al.	455/406
<input type="checkbox"/>	<u>5345595</u>	September 1994	Johnson et al.	455/403
<input type="checkbox"/>	<u>5357563</u>	October 1994	Hamilton et al.	455/406
<input type="checkbox"/>	<u>5406619</u>	April 1995	Akhteruzzaman et al.	455/406
<input type="checkbox"/>	<u>5444616</u>	August 1995	Nair et al.	455/406
<input type="checkbox"/>	<u>5444763</u>	August 1995	Lazaridis et al.	455/406
<input type="checkbox"/>	<u>5473667</u>	December 1995	Neustein	455/407
<input type="checkbox"/>	<u>5479510</u>	December 1995	Olsen et al.	455/407
<input type="checkbox"/>	<u>5485510</u>	January 1996	Colbert	455/403
<input type="checkbox"/>	<u>5513250</u>	April 1996	McAllister	455/407
<input type="checkbox"/>	<u>5526407</u>	June 1996	Russell et al.	455/407
<input type="checkbox"/>	<u>5530438</u>	June 1996	Bickham et al.	455/408
<input type="checkbox"/>	<u>5615110</u>	March 1997	Wong	340/7.21
<input type="checkbox"/>	<u>5631947</u>	May 1997	Wittstein et al.	455/407
<input type="checkbox"/>	<u>5655007</u>	August 1997	McAllister	455/403
<input type="checkbox"/>	<u>5661285</u>	August 1997	Elrick et al.	455/408
<input type="checkbox"/>	<u>5668876</u>	September 1997	Falk et al.	340/7.21
<input type="checkbox"/>	<u>5699528</u>	December 1997	Hogan	455/406
<input type="checkbox"/>	<u>5708422</u>	January 1998	Blonder et al.	340/7.21

ART-UNIT: 2683

PRIMARY-EXAMINER: Trost; William

ASSISTANT-EXAMINER: Ferguson; Keith

ATTY-AGENT-FIRM: Joao, Esq.; Raymond A.

ABSTRACT:

A transaction security apparatus and method including an input device for inputting transaction data, a processing device for processing the transaction data and for generating a first signal corresponding to the transaction, and a transmitter for transmitting the first signal over a communication network directly to a communication device associated with an individual account holder. The communication device provides notification to the individual account holder of the transaction.

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L1: Entry 3 of 4

File: USPT

Feb 27, 1996

US-PAT-NO: 5495284

DOCUMENT-IDENTIFIER: US 5495284 A

TITLE: Scheduling and processing system for telephone video communication

DATE-ISSUED: February 27, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katz; Ronald A.	Los Angeles	CA	90024	

APPL-NO: 08/ 154313   [\[PALM\]](#)

DATE FILED: November 17, 1993

## PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part application of application Ser. No. 08/067,783, entitled "VIDEOPHONE SYSTEM FOR SCRUTINY MONITORING WITH COMPUTER CONTROL" and filed on May 25, 1993, now abandoned, which is a continuation-in-part application of application Ser. No. 08/031,235, entitled "VIDEOPHONE SYSTEM FOR SCRUTINY MONITORING WITH COMPUTER CONTROL" and filed on Mar. 12, 1993, now U.S. Pat. No. 5,412,798.

INT-CL: [06] [H04 N 7/14](#), [H04 M 11/00](#)

US-CL-ISSUED: 348/15; 379/92, 379/96

US-CL-CURRENT: [348/14.09](#); [379/92.03](#), [379/93.21](#)

FIELD-OF-SEARCH: 348/15, 348/14, 348/16, 348/17, 348/18, 348/19, 379/202, 379/203, 379/204, 379/205, 379/92, 379/94, 379/96, 379/93

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <a href="#">3881060</a>	April 1975	Connell et al.	
<input type="checkbox"/> <a href="#">4493948</a>	January 1985	Sues et al.	
<input type="checkbox"/> <a href="#">4641127</a>	February 1987	Hogan et al.	
<input type="checkbox"/> <a href="#">4825457</a>	April 1989	Lebowitz	
<input type="checkbox"/> <a href="#">4843377</a>	June 1989	Fuller et al.	
<input type="checkbox"/> <a href="#">4876597</a>	October 1989	Roy et al.	

<input type="checkbox"/>	<u>4893325</u>	January 1990	Pankonen et al.	
<input type="checkbox"/>	<u>4916435</u>	April 1990	Fuller	
<input type="checkbox"/>	<u>4939773</u>	July 1990	Katz	
<input type="checkbox"/>	<u>4954886</u>	September 1990	Elberbaum	
<input type="checkbox"/>	<u>4962473</u>	October 1990	Crain	
<input type="checkbox"/>	<u>4992866</u>	February 1991	Morgan	
<input type="checkbox"/>	<u>5061916</u>	October 1991	French et al.	
<input type="checkbox"/>	<u>5065393</u>	November 1991	Sibbitt et al.	348/15
<input type="checkbox"/>	<u>5077788</u>	December 1991	Cook et al.	
<input type="checkbox"/>	<u>5109399</u>	April 1992	Thompson	
<input type="checkbox"/>	<u>5136581</u>	August 1992	Muehrcke	348/15
<input type="checkbox"/>	<u>5164979</u>	November 1992	Choi	
<input type="checkbox"/>	<u>5202759</u>	April 1993	Laycock	
<input type="checkbox"/>	<u>5204670</u>	April 1993	Stinton	
<input type="checkbox"/>	<u>5224157</u>	June 1993	Yamada et al.	
<input type="checkbox"/>	<u>5241587</u>	August 1993	Horton et al.	
<input type="checkbox"/>	<u>5264929</u>	November 1993	Yamaguchi	
<input type="checkbox"/>	<u>5323445</u>	June 1994	Nakatsuka	379/202

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
188286	July 1986	EP	
63-260536	April 1990	JP	
0029456	February 1991	JP	

## OTHER PUBLICATIONS

Rangan, P. Venkat, "Video conferencing, file storage, and management in multimedia computer systems", Computer Networks and ISDN Systems, Mar. 1993, vol. 25, No. 8, pp. 901-919 (Article).

Imai, R., et al., "Multimedia Communication Technology", Fujitsu Scientific & Technical Journal, 1992, vol. 28, No. 2, pp. 172-179--(Article).

Yager, T., "Better Than Being There", Byte, Mar. 1993, vol. 18, pp. 129-130, 132-134--(Article).

Wright, Peter, "Vision by Telephone", Computer Systems, Jan. 1986 Bramley, (Great Britain)--(Article).

ART-UNIT: 268

PRIMARY-EXAMINER: Kuntz; Curtis

ASSISTANT-EXAMINER: Woo; Stella L.

ATTY-AGENT-FIRM: Nilsson, Wurst & Green

## ABSTRACT:

A scheduling and processing system is disclosed for telephone and video communication with a plurality of remote locations from a central station. The system utilizes a dial-up telephone facility and telephonic television terminal units at the remote locations and memory structure for storing call schedule data on the telephonic television terminal units. In accordance with one embodiment, the system also includes telephone interface structure for interfacing the dial-up telephone facility to accomplish communication and at least one central video terminal including a speakerphone unit and a display device for providing television displays. Computer control structure receives calls through the dial-up telephone facility and the telephone interface structure stores the call schedule data in the memory structure for retrieval in a sequential order and for driving the telephone interface structure to provide connections from the central video terminal to the telephonic television terminal units in accordance with the sequential order for video communication.

24 Claims, 10 Drawing figures

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L1: Entry 4 of 4

File: USPT

Sep 19, 1989

US-PAT-NO: 4868376

DOCUMENT-IDENTIFIER: US 4868376 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Intelligent portable interactive personal data system

DATE-ISSUED: September 19, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lessin; Arlen R.	New York	NY		
Gruppuso; Frank M.	Commack	NY		
Harrison; Shelley A.	Dix Hills	NY		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
SmartCard International Inc.	New York	NY			02

APPL-NO: 07/ 051110 [PALM]

DATE FILED: May 15, 1987

INT-CL: [04] G06K 19/06

US-CL-ISSUED: 235/492; 235/487, 235/380

US-CL-CURRENT: 235/492; 235/380, 235/487

FIELD-OF-SEARCH: 235/492, 235/493, 235/487, 235/379, 235/380, 235/382, 235/382.5, 340/825.31, 340/825.32, 340/825.33, 340/825.34

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>3971916</u>	July 1976	Moreno	364/200
<input type="checkbox"/>	<u>4211919</u>	July 1980	Ugon	235/488
<input type="checkbox"/>	<u>4298793</u>	November 1981	Melis et al.	235/487
<input type="checkbox"/>	<u>4575621</u>	March 1986	Dreifus	235/380
<input type="checkbox"/>	<u>4587409</u>	May 1986	Nishimura et al.	235/380

<input type="checkbox"/>	<u>4614861</u>	September 1986	Pavlov et al.	235/380
<input type="checkbox"/>	<u>4677657</u>	June 1987	Nagata et al.	235/380 X
<input type="checkbox"/>	<u>4697072</u>	September 1987	Kawana	235/380
<input type="checkbox"/>	<u>4701601</u>	October 1987	Francini et al.	235/492 X
<input type="checkbox"/>	<u>4742215</u>	May 1988	Daughters et al.	235/487
<input type="checkbox"/>	<u>4752678</u>	June 1988	Rikuna	235/380

ART-UNIT: 214

PRIMARY-EXAMINER: Leung; Philip H.

ATTY-AGENT-FIRM: Pennie & Edmonds

ABSTRACT:

An intelligent portable interactive personal data system is disclosed. A microprocessor with memory is contained within a transaction card-shaped housing. An alphanumeric keypad and alphanumeric display is located on a surface of the housing. At least one port within the housing is provided for the input and output of information. An operating system is stored in the memory to control the operation of the system through the microprocessor. The operating system provides a means for generating a plurality of messages on the display that prompts the user during the operation of the system.

33 Claims, 33 Drawing figures

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